SEQUENCE LISTING

<110>	Curiel, David T. Krasnykh, Victor N. Dmitriev, Igor
<120>	Adenovirus Vector Containing A Heterologous Peptide Epitope in the HI Loop of the Fiber Knob
<130>	D6080
<140>	09/245,603
<141>	1999-02-05
<150>	US 60/099,801
	US 60/073,947
<151>	1998-09-10
	1998-02-06
<160>	17
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<221>	primer_bind
<223>	Forward primer F1 used to generate a gene encoding
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taaggatccg	gtgccattac agtaggaaac aaaaataa 38
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	the Ad5 fiber knob domain with the HI loop deleted.
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catagagtat	gcagatatcg ttagtgttac aggtttagtt ttg 43

SEQ 1

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<210>
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                DNA
                artificial sequence
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                primer_bind
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gtaacactaa cgatatctgc atactctatg tcattttcat gg
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                Reverse primer R2 used to generate a gene encoding
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cccaagctta caattgaaaa ataaacacgt tgaaacataa c
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                63
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                DNA
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                Oligonucleotide annealed with SEQ ID NO: 6 to form a
     <223>
                duplex and cloned into EcoRV-digested pQE.KNOBDHI.
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                                                                     60
tacactaaac ggtacccagg aaacaggaga cacaactgac tacaaggacg acgatgacaa
                                                                     63
gcc
                6
     <210>
                63
     <211>
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<212>	DNA
<213>	artificial sequence
<220>	
<223>	Oligonucleotide annealed with SEQ ID NO: 5 to form a
	duplex and cloned into EcoRV-digested pQE.KNOBDHI.
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ggcttgtcat	cgtcgtcctt gtagtcagtt gtgtctcctg tttcctgggt accgtttagt 60
gta	63
<210>	7
<211>	29
<212>	DNA
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<223>	Oligonucleotide used in synthetic duplex which
	encodes MetHis ₆ Lys.
<400>	7
gatccatgca	tcaccatcac catcacaag 29
<210>	8
<211>	29
<212>	DNA
<213>	artificial sequence
<220>	
<223>	Oligonucleotide used in synthetic duplex which
	encodes MetHis ₆ Lys.
<400>	8
cgcgcttgtg	atggtgatgg tgatgcatg 29
<210>	9
<211>	16
<212>	DNA
<213>	artificial sequence
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<223>	An NdeI-SwaI linker ligated to plasmid pTG3602 after

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partial digestion of the plasmid with NdeI.
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                                       16
tacccattta aatggg
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                10
     <211>
                66
     <212>
                DNA
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                artificial sequence
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     <223>
                Oligonucleotide in duplex cloned into EcoRV site
                of plasmid pQE.KNOBDHI generating pQE.KNOB.RGDHI.
     <400>
                10
cacactaaac ggtacacagg aaacaggaga cacaacttgt gactgccgcg gagactgttt 60
ctgccc
                                                                     66
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               primer_bind
     <223>
                Oligonucleotide in duplex cloned into EcoRV site
                of plasmid pQE.KNOBDHI generating pQE.KNOB.RGDHI.
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gggcagaaac agtctccgcg gcagtcacaa gttgtgtctc ctgtttcctg tgtaccgttt
                                                                     60
agtgtg
                                                                     66
              . 12
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                41
     <212>
               DNA
     <213>
               artificial sequence
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               Oligonucleotide in synthetic duplex used to
               replace 41 bp PacI-ClaI-fragment in pcDNA.Luc,
               generating pcLucPC1.
     <400>
               12
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SEQ 4

<210>

16

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41
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                13
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                45
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                DNA
                artificial sequence
      <213>
      <220>
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                replace 41 bp PacI-ClaI-fragment in pcDNA.Luc,
                generating pcLucPC1.
     <400>
                13
cgactccaat tcagcggggg ccacctgata tcctttgtat ttgat
                                                            45
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                14
     <211>
                13
     <212>
                PRT
     <213>
                artificial sequence
     <220>
     <223>
                Amino acid sequence deleted from the HI loop of
                the fiber knob domain and replaced with a
                unique EcoRV site.
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Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp Thr Thr Pro
                  5
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                15
     <211>
                8
     <212>
                PRT
     <213>
                artificial sequence
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                Amino acid sequence of the FLAG octapeptide.
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Asp Tyr Lys Asp Asp Asp Lys
                 5
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SEQ 5

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9
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     <212>
                PRT
     <213>
                artificial sequence
     <220>
     <223>
                Amino acid sequence of a RGD peptide incorporated
                into the region of the fiber gene within the HI loop.
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Cys Asp Cys Arg Gly Asp Cys Phe Cys
                 5
     <210>
                17
     <211>
                13
     <212>
                PRT
     <213>
                artificial sequence
     <220>
     <223>
                Amino acid sequence of peptide replacing the
                RGD coding sequence.
     <400>
                17
Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp Thr Thr Pro
                 5
                                      10
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